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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/799,902	03/12/2004	Jae Yeong Park	2080-3236	8316	
75	12/12/2005		EXAM	INER	
LEE & HONG			LE, HOANGANH T		
801 S. Figueroa Street Suite 1300			ART UNIT	PAPER NUMBER	
Los Angeles, CA 90017-5569			2821	<del>\\</del>	
			DATE MAILED: 12/12/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/799,902	PARK, JAE YEONG	
Office Action Summary	Examiner	Art Unit	- (m)
	HoangAnh T. Le	2821	
The MAILING DATE of this communication app	<u> </u>	correspondence addres	s
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed n the mailing date of this commul ED (35 U.S.C. § 133).	, ,
Status			
1) Responsive to communication(s) filed on 10/2	4/05		
·	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pr	osecution as to the me	rits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4) Claim(s) is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examiner	r.		
10) The drawing(s) filed on is/are: a) acce		Examiner.	•
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correcti			121(d).
11) ☐ The oath or declaration is objected to by the Ex-	aminer. Note the attached Office	Action or form PTO-1	52.
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a	)-(d) or (f).	
1. Certified copies of the priority documents			
2. Certified copies of the priority documents			
3. Copies of the certified copies of the prior		ed in this National Stag	je /
application from the International Bureau	* **		. (\)
* See the attached detailed Office action for a list of	of the certified copies not receive	ed. Locucaul	lum
	•	Hoanganh Le Primary Examiner	
Attachment(s)		- -	
1) X Notice of References Cited (PTO-892)	4) Interview Summary		
2)	Paper No(s)/Mail Da 5) Notice of Informal F	ate Patent Application (PTO-152)	)
Paper No(s)/Mail Date	6) Other:	( ) = 102)	
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#### **DETAILED ACTION**

1. The amendment filed on October 21, 2005 is acknowledged.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Honjo (the US patent No. 5,404,581, of record).

The Honjo reference teaches in figures 2-4 an antenna system comprising: an antenna 31 for receiving a signal, a low noise amplifier 34 for amplifying a signal received through the antenna so as to minimize a noise generation, and a phase shifter 37 for controlling a phase of the amplified signal, wherein the antenna 31, the low noise amplifier 34, and the phase shifter 37 are formed on one high resistance substrate 1. The high resistance substrate is preferably selected among a high resistance silicon substrate, a high resistance ceramic substrate, and a printed circuit board (PCB). The high resistance substrate is a substrate of two surfaces having signal electrodes for connecting upper and lower surfaces thereof (figure 2): The antenna 5 is one between apatch antenna and a slot antenna. The phase shifter is constituted with signal electrodes, ground electrodes, inductors respectively formed of the same conductive material, and an electron switch 32 and a capacitor connected to the signal electrodes. The inductor is formed as a strip line structure or a spiral structure by a micro electro

mechanical system (MEMS) technique (figure 2). The electron switch is formed as a bare chip form that is connected to the signal electrodes by a bonding wire (figure 2). The electron switch further includes a polymeric protection material. The electron switch is formed at an etched part of the high resistance substrate after partially etching the high resistance substrate. The electron switch is formed as a bare chip form connected to the signal electrodes by a flip chip bonding technique. The low noise amplifier is formed as a bare chip form connected to the signal electrodes by a bonding wire (figure 2). The phase shifter is constituted with signal electrodes, ground electrodes, inductors respectively formed of the same conductive material, and an electron switch and a capacitor connected to the signal electrodes (figure 2).

## Response to Arguments

4. Applicant's arguments filed October 21, 2005 have been fully considered but they are not persuasive.

Applicant argues that Honjo does not teach a high resistance substrate.

Examiner respectfully disagrees. Honjo does teach a high resistance substrate 1. Figure 2 shows the substrate 1 being a semi-insulation GaAs substrate, and since the substrate 1 is a semi-insulation GaAs substrate, the substrate 1 should be a high-resistance substrate ( see Fujiwara et al (US Patent No. 6,781,246) col. 4, lines 5-7 and col. 5, lines 35-38).

Since Honjo does show all claimed structure, including the high resistance substrate 1, the 102 (b) rejection is proper.

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#### Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HoangAnh T. Le whose telephone number is (571) 272-1823. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Hoanganh Le Primary Examiner